

VHF AIR BAND TRANSCEIVERS

IC-A25N·IC-A25C

SPECIFICATIONS

	IC-A25N	IC-A25C
<b>GENERAL</b>		
NAV and COM	NAV and COM channels	COM channels
Frequency range	118.000-136.992 MHz	118.000-136.992 MHz
Tx	108.000-136.992 MHz	118.000-136.992 MHz
Rx (Weather)	161.650-183.275 MHz	161.650-183.275 MHz
Number of memory channels	300 channels/75 groups	
Channel spacing	25K, 33 kHz	
Type of emission	9K00A3E, 9G00A3E, 16K00A3E (Weather)	
Power supply requirement	7.2 V DC (BP-268), 11.0 V DC (External DC Jack)	
Current drain (approximately)		Less than 1.8 A
Tx	High	50 W
Rx	Max. audio/Stand-by	Less than 500 mA/90 mA typ. (GPS, Bluetooth®, Light OFF)
Antenna impedance	50 Ω	
Operating temperature range	-10°C to +60°C, 14°F to 140°F	
Dimensions (W×H×D)	58.9 × 148.4 × 31.8 mm, 2.3 × 5.8 × 1.3 in. (Projections not included)	
Weight (approximate)	384 g, 13.6 oz. (with antenna and BP-268)	
<b>TRANSMITTER</b>		
Output power (at 72 V DC)	6.0/1.8 W typical (PEP/CARVER)	
Audio harmonic distortion	Less than 10% (at 50% modulation)	
Harm and noise ratio	More than 35 dB	
Spurious emissions	More than 48 dB (Except operating frequency ±20 kHz or 10 kHz channel spacing)	
Frequency stability	±0.4 kHz (Except operating frequency ±20 kHz or 10 kHz channel spacing)	
<b>RECEIVER</b>		
Intermediate frequencies	48.35 MHz-2.450 MHz (optional)	
Sensitivity	NAV/COM (6 dB S/N)	Less than 0 dBμV
VX (12 dB SINAD)		Less than -8 dBμV
Squelch sensitivity (at threshold)	Less than 0 dBμV (AM), Less than -5 dBμV (FM)	
Spurious response	More than 50 dB (AM), More than 30 dB (FM)	
Harm and noise	More than 35 dB (at 20% modulation)	
Audio output power	530 mW typical (AM @ 500%, Mod. at 10% distortion)	
External speaker	1200 mW typical (AM @ 500%, Mod. at 10% distortion)	
Internal speaker	3-conductor 3.5 mm (1.4 in.)	
Ext. speaker connector		
Measurements made in accordance with FCC Part 25. All stated specifications are subject to change without notice or obligation.		
<b>Applicable U.S. Military Specifications</b>		
Standard	Method	MIL-STD-883C Procedure
Low Pressure	501.9	1.11
Hum. storage/drain	501.5	1.11
Low Temperature	502.5	1.11
Temperature Shock	502.5	1.11
Solar Radiation	502.5	1.11
Heat Shock/Temp.	502.5	1.11
Humidity	507.9	1.11
Shock	507.9	1.11
Dust/Blowing	510.5	1.11
Impactation	512.5	1.11
Vibration	514.6	1.11
Shock	518.6	1.11
Also meets requirement MIL-STD-883C, C1, C2 and F.		
<b>Ingress Protection Standard</b>		
Dust and Water	IP67 (Dust protection and Water proof* protection)	
	* One meter depth for 30 minutes.	

OPTIONS

<p><b>BATTERY PACK AND CASE</b></p> <p><b>BP-268</b> 11.0V 7.2 V Battery case (2000 mAh (typ.)) 2500 mAh (typ.) Water resistant</p> <p><b>BP-269</b> Battery case (2000 mAh (typ.)) 5 × LR16 (AAA) 2500 mAh (typ.) Water resistant</p>	<p><b>RAPID CHARGER</b></p> <p><b>BC-224S</b> Charges the BP-268 in approximately 9 hours</p> <p><b>BC-224</b> Charges the BP-269 in approximately 9 hours</p> <p><small>* EA for USA version, SE for Europe version.</small></p>	<p><b>CIGARETTE LIGHTER CABLE</b></p> <p><b>CP-20</b> To operate from a 12 or 24 V DC power source socket.</p>
<p><b>SPEAKER MICROPHONE</b></p> <p><b>HM-21</b> Waterproof</p>	<p><b>BELT CLIP</b></p> <p><b>MB-133</b></p>	<p><b>LEATHER BELT HANGERS</b></p> <p><b>BP-268</b> Swivel type <b>BP-269</b> Fixed type <b>BP-268L</b> Long type <b>BP-269L</b> Long type</p>
<p><b>Bluetooth® HEADSET</b></p> <p><b>HS-5</b> The side tone function when connected to radio.</p>	<p><b>HEADSET ADAPTER CABLE</b></p> <p><b>OPC-2379</b></p>	<p><b>PROGRAMMING CABLE</b></p> <p><b>OPC-4781C</b> USB type, OPC-2144 plug, adapter cable required.</p>

**ANTENNA**

- **FA-012AR**: Same as supplied.

**APPLICATION SOFTWARE**

- **RS-AERO14Y**: Android™ application software for flight planning.
- **RS-AERO11Y**: iOS™ application software for flight planning.
- **CS-A25**: Programming software for Windows® PC.

\* The application for Android™ can be downloaded free from Google Play™.  
\* The application for iOS™ can be downloaded free from App Store.

**Supplied accessories** (not applicable for the 6W (PEP) version)

- BP-268 battery pack
- BC-224 rapid charger
- OPC-2379 headset adapter
- FA-012AR antenna
- MB-133 belt clip
- BP-269 battery pack
- BC-224S rapid charger
- FA-012AR antenna
- Hand strap



IC-A25N  
IC-A25C

VHF AIR BAND TRANSCEIVERS



6 W (PEP) Powerful Air Band Radio with Built-in GPS and Bluetooth®

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# Redefining VHF Airband Communication from the Ground Up



## Navigation Functions (for the IC-A25N)

### Built-in GPS with Simplified Waypoint NAV

The simplified waypoint NAV guides you to a destination by using current position information from GPS (also GLONASS and SBAS). The waypoint NAV has two functions: Direct-To NAV and Flight Plan NAV. In the Direct-To NAV, the IC-A25N directly guides you to a specified waypoint. In the Flight Plan NAV, the transceiver guides you to a sequential series of waypoints. Up to 10 flight plans and 300 waypoints can be memorized in the IC-A25N. Position information imported from an Android/iOS device\* can be used as a waypoint.



\* RS-AER01A/RS-AER01I required.

### Flight Plans with Android™ /iOS™ App

Using the RS-AER01A (Android) or RS-AER01I (iOS) application, you can make flight plans on an Android/iOS device and import the plan into the IC-A25N via Bluetooth®. The following four functions are available:

- 1. Create a flight plan**  
You can make flight plans on an Android/iOS device by using preprogrammed waypoints.
- 2. Set Direct-To NAV**  
You can select a point on the map and export it to the IC-A25N for Direct-To NAV.
- 3. Display flight plan information**  
A flight plan in the IC-A25N can be displayed on an Android/iOS device.
- 4. Display waypoint information**  
Preprogrammed waypoints can be exported to an Android/iOS device and plotted on a map application.



RS-AER01I map screen example ©2017 Google Map data ©2017 Google

### VOR Navigation Functions

The **CDI (Course Deviation Indicator)** is detailed like a real VOR instrument, and displays any deviation from your course. The **OBS (Omni Bearing Selector)** enables you to change course from the original flight plan. The **TO-FROM indicator** shows the position relationship between your aircraft and the course selected by the OBS. The **ABSS (Automatic Bearing Set System)** function enables you to set the current course as a new course in two simple steps.



VOR screen

### Near Station Search Function

The near station search function assists you in accessing nearby ground stations. The function searches for nearby stations using the station memories that have GPS position information. To use the near station search function, location data and frequencies of the ground stations must be programmed.



Near station search function screen

## General Functions

### Class-Leading High Power RF Output

Output power is increased to approximately 6 W typical (PEP) and 1.8 W typical (carrier) compared to the IC-A24 (5/1.5 W (PEP/carrier)). This expands the communication coverage and enhances the safety of aircraft operation.

### Easy-to-Use Interface

Often used functions are assigned to the keypad and you can directly access a desired function. The enlarged flat sheet keypad offers smooth and swift operation.

After pushing the [F] key, you can directly access a function printed in orange on the keypad.

\* Photo is of the IC-A25N.



### 2.3 Inch Large High Visibility LCD

The large and high visibility LCD provides user-friendly, graphic screens. The night mode option enables easy viewing in the dark. The operating frequency in large characters can be recognized at a glance.



Menu screen Night mode screen

### "Flip-Flop" Channel Recall

The IC-A25N/C stores the last 10 channels used. You can easily recall those channels by using the directional keys or the channel knob on the top panel. This is convenient for switching between several channels, such as NAV and COM channels.



Recall channel screen

### Built-in Bluetooth® for Hands-Free Operation (IC-A25N)

A third-party wireless Bluetooth® headset, like a 3M™ Peltor™ WS™ 5\*, provides convenient hands-free operation. Also, by using the optional VS-3 Bluetooth® headset, the side tone function can be used.

\* Compatibility not guaranteed.

### Intelligent Battery with Detailed Battery Status

The supplied BP-288, 2350 mAh (typical) intelligent battery pack, provides up to 10.5 hours\* of operating time. You can check the condition of the battery pack in the battery status screen. It is very useful for optimum charging and battery health maintenance.

\* Typical operation with Tx Rx (Max.audio); standby:5.5/90. (Bluetooth® OFF, GPS ON)



Detailed battery information screen

### Other Features

- IP57 dust-protection and waterproof construction
- Operate with six AA size alkaline batteries with the BP-289 battery case
- BNC antenna
- 121.5 MHz emergency key
- Weather channels
- Priority watch
- VFO scan, memory channel scan, priority scan
- AML (Auto Noise Limiter) for noise reduction
- Side tone function
- Internal VOX capability
- 300 memory channels (in 15 memory groups) with 12 character names
- 8.33 kHz channel spacing

### AUTHORIZED DEALER

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